UNITED STATES
NUCLEAR REGULATORY COMMIS
WASHINGTON, D. C. 20555

FEB 22 1983

MAR 1 1983
M.E. REMLEY

RECEIVED
CORRESPONDENCE
FEB 28 1983
ENERGY SYSTEMS GROUP

Energy Systems Group
D/786 Correspondence

ACTION			
REMARKS			
ANDERSON, R. V.	LA24		
ASHWORTH	LB22		
ABBE	NB14		
AUMEISTER	LB11		
BEELEY	LB01		
BELL, J.	LA26		
BRUNINGS	LB02		
CARDENAS	NB01		
CONNERS	NB02		
DETTERMAN	LA17		
DIPOL	LA21		
EAST	LA27		
ELLIS, L.	LA34		
EMPEY, D.	KB44		
EILER	LA30	X	X
FOWLER	KB04		
GARDNER, R. R.	LA06		
GYLFE	LA39		
HALLINAN	LA24		
HARTZLER	KB05		
HAYS, E.	MA03		
HOLBROOK	LA07		
HOVER	LA34		
HUTTER	LB30		
JOHNSON, R. A.	LA34		
JULIAN	KB03		
KATZ	LA19		
KLINGER	NB02		
	LA35		
	MA03		
	MA03		
LANCET	LB02		
LCAS	LA34		
MASON, D.	NB02		
MCOURT	LA02		
MDONALD	LB11		
MEYERS, G. W.	LA10		
MOORE, K. A.	MA03		
MOSS	NB02		
NAGAMATSU	KB08		
OLDENKAMP	LB17		
PARKER, T.	NB02		
PEICHE, L.	055-AA89		
PEINECKER	LA20		
REMLEY	NB13	X	X
ROBERTS, W. L.	LA21	X	X
SANDERS	NB01		
SCHIRM	LA23		
SCHMIDT, D.	LA20		
SCHMITT, A.	LA17		
SILVERMAN	LB16		
SMITH, J. V.	LA38		
SPENCER, C.	MA03		
SPRINGER	LA18		
THANSON	LB08	X	X
TRILLING	LB22		
WALTER, J. H.	LB07		
WHEELER	LA33		
WIESENECK	T008		
WILLIAMS, R. O.	LA04		
2 CORRES	001		
UTILE		X	X
NB13			

FORM N 77-H-1 REV. 11-82
SUPPLIED

Docket No. 50-375

Dr. M. E. Remley, Director
Health, Safety and Radiation Services
Rockwell International Corporation
8900 DeSoto Avenue
Canoga Park, California 91304

Dear Dr. Remley:

The Commission has issued the enclosed Order that authorizes you to dismantle the Rockwell International L-85 Nuclear Examination Reactor in accordance with your application dated March 10, 1980, as amended by letter dated December 14, 1982. The dismantling plan replaces the Technical Specifications in their entirety. Since the fuel and radioactive sources have been shipped offsite to authorized receivers, we will consider termination of License No. R-118 after the reactor has been dismantled and residual radioactivity has been reduced to levels specified in the enclosed order authorizing dismantling.

The related Safety Evaluation, Environmental Impact Appraisal, and Negative Declaration are also enclosed.

A copy of the Order and Negative Declaration are being filed with the Office of the Federal Register for publication.

Sincerely,

Darrell G. Eisenhut, Director
Division of Licensing

Enclosures:
1. Order Authorizing Dismantling
2. Safety Evaluation
3. Environmental Impact Appraisal
4. Negative Declaration

cc w/enclosures:
See next page

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Rockwell International Incorporation -2-

cc w/enclosure(s):

Sacramento County Board of
Supervisors
827 7th Street, Room 424
Sacramento, California 95814

Office of Intergovernmental
Management - State of California
1400 10th Street, Room 108
Sacramento, California 95814

California Department of Health
ATTN: Chief, Environmental
Radiation Control Unit
Radiological Health Section
714 P Street, Room 498
Sacramento, California 95814

ROCKWELL INTERNATIONAL

DOCKET NO. 50-375

ORDER AUTHORIZING DISMANTLING OF FACILITY AND DISPOSITION OF COMPONENT PARTS

By application dated March 10, 1980, as amended by letter dated December 14, 1982, Rockwell International (the licensee) requested authorization to dismantle its L-85 Nuclear Examination Reactor (the facility), located at the licensee's site at Santa Susana Field Laboratory, Ventura County, California, and to dispose of the component parts, in accordance with the plan submitted as part of the application. A "Notice of Proposed Issuance of Orders Authorizing Dismantling of Facility, Disposition of Component Parts, and Termination of Facility License" was published in the Federal Register on April 30, 1980 (45 FR 30759). No request for a hearing or petition for leave to intervene was filed following notice of the proposed action.

The Nuclear Regulatory Commission (the Commission) has reviewed the application in accordance with the provisions of the Commission's rules and regulations and has found that the dismantling and disposal of component parts under the licensee's dismantling plan will be in accordance with the regulations in 10 CFR Chapter I, and will not be inimical to the common defense and security or to the health and safety of the public. The basis for the findings is set forth in the concurrently issued Safety Evaluation by the Office of Nuclear Reactor Regulation.

The Commission has prepared an environmental impact appraisal for this action. Based on that appraisal, the Commission has determined that this action will not result in any significant environmental impact and that an environmental impact statement need not be prepared.

Accordingly, Rockwell International is hereby authorized to dismantle the facility covered by Facility License No. R-118, and dispose of the component parts in accordance with its corrected dismantling plan dated December 14, 1982 and the Commission's rules and regulations.

After completion of the dismantling and decontamination of the reactor, the submission of a report on the radiation survey to confirm that radiation levels in the facility area meet the values defined in the dismantling plan, and inspection by representatives of the Commission, consideration will be given to whether a further order should be issued terminating Facility License No. R-118.

For further details with respect to this action see (1) the application for authorization to dismantle facility and dispose of component parts dated March 10, 1980, as revised by letter dated December 14, 1982, (2) the Commission's related Safety Evaluation, (3) the Commission's Environmental Impact Appraisal, and (4) the Commission's Negative Declaration dated FEB 22 1983 (which is also being published in the Federal Register). All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D.C. A copy of items (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 22nd day of February 1983.

FOR THE NUCLEAR REGULATORY COMMISSION

Darrell G. Eisenhut, Director
Division of Licensing

SAFETY EVALUATION BY THE
OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING ORDER AUTHORIZING DISMANTLING
OF FACILITY AND DISPOSITION OF COMPONENT PARTS
ROCKWELL INTERNATIONAL CORPORATION
L-85 REACTOR
DOCKET NO. 50-375

Introduction

By application dated March 10, 1980, as amended by letter dated December 14, 1982, Rockwell International Corporation (the licensee) requested authorization to dismantle its L-85 Nuclear Examination Reactor and dispose of its component parts in accordance with its dismantling plan.

The L-85 reactor is a homogeneous, solution-type research reactor licensed to operate at a maximum power level of 3 kilowatts, thermal. The fuel is a solution of water and fully enriched uranyl sulfate. The fuel solution is contained in a 1-foot diameter, spherical, stainless steel vessel that is surrounded by a graphite reflector. Two safety rods and two control rods are inserted.

On July 29, 1982, the uranyl sulfate solution was removed from the reactor core and on September 28, 1982, it was shipped to the Idaho Nuclear Engineering Laboratory for processing. Coolant water with radioactivity concentration of about .01 MPC has been drained, so the only radioactivity remaining is that produced by activation during the years of operation. Subsequent to the removal and offsite shipment of the fuel, Rockwell International (RI) submitted an amended application for dismantling by letter dated December 14, 1982.

Evaluation

The RI application indicates that only about 1.3 Ci of total residual activity remains, mostly in core vessel, steel reflector tank and the control rods.

The dismantling plan indicates dismantling and removal of all components and activated structural materials will be conducted in a manner such that radioactivity readings will be consistent with Table 1 of Regulatory Guide 1.86.

Table 1 in the RI application indicates that decontamination activities will reduce contamination to a level of 5 μR/hr above the background... "or the occupancy of the facility must be limited so that no person will receive more than 10 mRem/yr."

ENVIRONMENTAL IMPACT APPRAISAL

SUPPORTING ORDER AUTHORIZING DISMANTLING OF FACILITY AND DISPOSITION OF COMPONENT PARTS

ROCKWELL INTERNATIONAL CORPORATION

DOCKET NO. 50-375

Introduction

By application dated March 10, 1980, as revised December 14, 1982, Rockwell Internation Corporation (RI) applied for authorization to dismantle its L-85 Nuclear Examination Reactor, dispose of its component parts, and terminate the facility license. This evaluation deals with those features and characteristics of reactor dismantling and disposition of component parts which may affect the environment.

Discussion

The L-85 Nuclear Examination Reactor is a small research reactor that operated at a maximum of 3 kW thermal. The concurrently issued Safety Evaluation discusses the construction of the reactor and the safety aspects of dismantling. The reactor was originally located at corporate facilities in Downey, California until 1956, where it operated at 0.3 watts. It was moved to its present location in the RI Santa Susana Field Laboratory where it was modified to increase its power level to the current level of 3 kW.

Environmental Considerations

Radioactive waste material produced during dismantling, such as paper towels, gloves and wipes, will be disposed of at an authorized radioactive waste burial site. The reactor components, other than the reactor core, will be decontaminated, stored, or disposed as scrap. Those reactor components that remain radioactively contaminated or activated will be shipped to an authorized burial site. The fuel has already been drained and shipped to a Department of Energy (DOE) facility for processing. RI proposes to remove all byproduct materials radioactive wastes, and radioactive components from the reactor facility. Radioactivity will be reduced to 5 μR/hr above background. RI has indicated that they do not now have plans to use the space occupied by the reactor for other activities following dismantling, at least not in the near future (personal communications with M. A. Remley by H. Bernard).

Therefore, dismantling will reduce radioactivity to virtually indistinguishable background and will cause no significant environmental impact.

Alternatives to Dismantling of Reactor and Disposal of Components

The reactor has not been operated for about 2 years and there are no plans or need for future operation. The other reasonable alternative to dismantling is to leave the reactor where it is, secure the facility and continue monitoring. However, as all of the short-lived radioactivity has already decayed, the measures necessary for dismantling in the future would be similar to those considered for dismantling and disposal at this time.

Long Term Effects of Dismantling and Disposal of Components

As the reactor fuel has already been shipped to a DOE facility for processing and any radioactive reactor components or structures will be disposed of at an authorized burial site, and decontamination will be accomplished to 5 μR/hr above background, there will no long term effects due to dismantling and disposal of this facility.

Conclusion

We conclude that there will be no significant environmental impact associated with the dismantling of the L-85 Nuclear Examination reactor facility and disposal of its component parts, and that no environmental impact statement is required to be written for dismantling the facility and disposal of its component parts.

Dated: February 22, 1983

NEGATIVE DECLARATION

FOR THE

ROCKWELL INTERNATIONAL CORPORATION

L-85 NUCLEAR EXAMINATION REACTOR

DOCKET NO. 50-375

The U. S. Nuclear Regulatory Commission (the Commission) has considered the Order authorizing dismantling of facility and disposition of component parts for the Rockwell International Corporation (the licensee) L-85 Nuclear Examination Reactor operated under Facility License No. R-118. The Order authorizes the licensee to disassemble the reactor which had operated at power levels up to 3 kW (thermal), and to dispose of the component parts.

The Commission's Office of Nuclear Reactor Regulation has prepared an environmental impact appraisal for this training reactor. On the basis of this appraisal, the Commission has concluded that an environmental impact statement for this particular action is not warranted because there will be no significant environmental impact attributable to the proposed action. The environmental impact appraisal is available for public inspection at the Commission's Public Document Room at 1717 H Street, N.W., Washington, D.C.

Dated at Bethesda, Maryland, this 22nd day of February 1983.

FOR THE NUCLEAR REGULATORY COMMISSION

Darrell G. Eisenhut, Director
Division of Licensing